

Recovery and Reconstruction Post-Hurricane Dorian in the Bahamas

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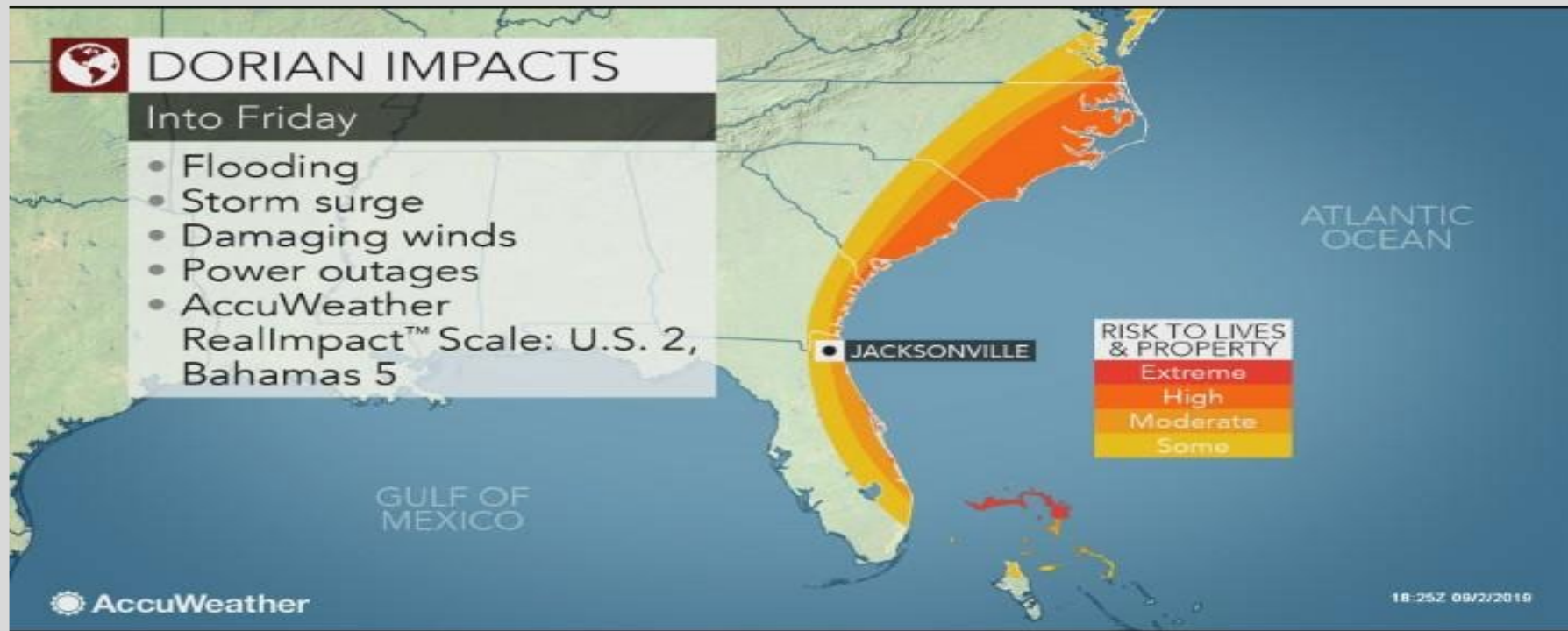
Background information



Background information

- Dorian was the first major hurricane of the 2019 Atlantic hurricane season
- Formed on August 24rd, 2019 from a tropical wave in the Central Atlantic
- Strengthen as it gradually move to the lesser Atlantic
- Became hurricane on August 28th
- Intensified to category 4 hurricane on August 31st
- On the 1st September, Dorian reached category 5
- Intensified with maximum sustained wind of 160 mph and hit the Bahamas
- Causing landfall in Grand Bahama and Abaco

Impacts of Hurricane Dorian



Impacts of Hurricane Dorian

- Dorian was the first of its kind to ever hit the Bahamas
- Damage totaled to \$3.4 billion
- Official death toll stands at 70
- 29,500 people lost their homes or job
- Abaco, which was the hardest hit island suffered 87% of the damage
- More than 75% of all homes were damaged

Immediate Response

- Coordination efforts with donor organisations for medical support
- Government security agents worked with the red cross for rescue mission
- Direct relief delivered 122 tons of requested medicine and supplies
- Emergency medical centres created
- American red cross deployed 40 emergency responders
- Affected people were treated
- Direct relief dispatch 4 cold chain donations value at \$1,128,714
- 76 hospital beds and 4 ambulance donated by Global Medical Response(GMR)

Recovery and Reconstruction Process

Damage Assessment

- A task force was formed by government and other stakeholders like:
The UN, Pan american Health Organisation and World Health Organisation
- Agreed on terms and set recovery goals and how to achieve those goals
- Agreed that recovery was to be done in two faces
 1. Social and Economic recovery: basic necessities
 2. Physical recovery: infrastructure and others



Assessment Summary Hurricane Dorian

	Damage	Losses	Additional costs
Social	1,597,290,766	92,391,720	82,254,021
Housing	1,487,167,663	65,014,267	57,809,391
Education	72,406,603	6,026,073	19,100,000
Health	37,716,500	21,351,380	5,344,630
Infrastructure	239,135,274	197,136,671	16,236,779
Power	131,355,000	68,924,558	6,335,000
Telecommunications	42,150,000	54,380,149	1,039,960
Water and Sanitation	14,853,000	36,624,014	2,289,200
Transport	50,777,274	37,207,950	6,572,619
Productive	620,650,850	400,285,030	19,954,141
Tourism	529,550,208	325,199,267	15,146,625
Commerce	77,584,545	64,973,002	4,807,516
Fisheries and Agriculture	13,516,097	10,112,761	
Environment	7,146,963	27,435,048	102,473,000
Total	\$2,464,223,852	\$717,248,469	\$220,917,941

Recovery and Reconstruction Process

Funding

- \$7billion borrowed from the international community(the IMF)
- \$7million donation from governments around the world
- Other donations from individuals and businesses NOT accounted for

Recovery and Reconstruction Process

Social and economic recovery

Internal revenue authority tax cut

- Import of cleaning and sanitary materials
- Purchasing of property in affected areas
- Selling of property in affected areas
- Setting up a new business in affected areas
- Zero tax for all cleaning companies



Recovery and Reconstruction Process

Social and Economic recovery

Tax cut

Purchasing price	Vat rate	Discount
Up to B\$100,000	2.5%	50%
B\$100,001 to B\$250,000	10%	35%
B\$250,001 to B\$500,000	10%	20%
B\$500,001 to B\$1 million	10%	15%

Recovery and Reconstruction Process

Social and Economic Recovery

\$ Amount	Purpose
\$828 million	Tourism and other expenses
\$30 million	Electricity restoration
\$15 million	Water restoration
\$15 million	Cleaning
\$1 million	Evacuation
\$30 per week for three months	Social assistance

Recovery and Reconstruction Process

Physical recovery

- Schools and hospitals maintenance and refurbished
- Government stimulus funds given to business owners
- Hotel and boat owners given gov't loans with no interest
- Road maintenance
- Coastal cleaning, preventive barrier replacement

Conclusion(fundamental principle)

- Post-disaster reconstruction and recovery goals are hard to achieve.
- The most important things in recovery processes are:
 - community involvement
- Provision of basic necessities,Eg: water, electricity, food, shelter, medical care
- If you fail in that above, you are most likely provoking activism
 - A possible change of government, like what happened in Puerto Rico
 - activist will take on the streets and demand things which could involve resignation of the executive.

Sources

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